



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (7505P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

81927-76

Date of Issuance:

8/12/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Alligare Imazapyr 75 WDG

Name and Address of Registrant (include ZIP Code):

Alligare, LLC  
 c/o Pyxis Regulatory Consulting Inc.  
 4110 136<sup>th</sup> St. Ct. NW  
 Gig Harbor, WA 98332

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 81927-76."
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

  
 Erik Kraft, Product Manager 24  
 Fungicide Herbicide Branch, Registration Division (7505P)

Date:

8/12/19

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/09/2018

If you have any questions, please contact BeWanda Alexander by phone at (703)347-0313, or via email at [alexander.bewanda@epa.gov](mailto:alexander.bewanda@epa.gov).

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear].

{[BOOKLET FRONT PANEL LANGUAGE]}

IMAZAPYR	GROUP	<b>2</b>	HERBICIDE
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## ALLIGARE IMAZAPYR 75 WDG

<b>ACTIVE INGREDIENT:</b>	<b>By Wt</b>
Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) .....	75.0%
<b>OTHER INGREDIENTS:</b> .....	<u>25.0%</u>
<b>TOTAL:</b> .....	100.0%

Alligare Imazapyr 75 WDG is a water dispersible granule containing 75% active ingredient.

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

[See] [inside] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including] [Storage and Disposal Instructions][.]

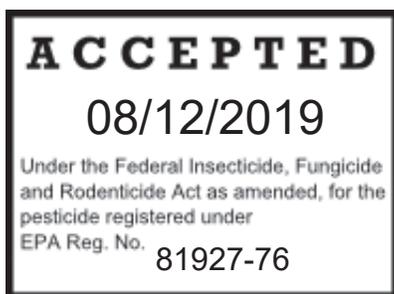
**EPA Reg. No.** 81927-xx

**EPA Est. No.**

**Manufactured for:**

Alligare, LLC  
1565 5<sup>th</sup> Avenue  
Opelika, AL 36801

**Net Weight:**



## {LANGUAGE INSIDE BOOKLET}

<b>FIRST AID</b>	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Mixers, Loaders, Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves for all mixers and loaders, plus applicators using handheld equipment
- Shoes plus socks

**User Safety Requirements:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Engineering Control Statement:** Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

**Users should:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. See Directions for Use for additional precautions and requirements.

## PHYSICAL OR CHEMICAL HAZARDS

Mix, store and apply spray solutions of this product only in stainless steel, fiberglass, plastic, and plastic-lined steel containers. Do not mix, store or apply this product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks. Do not mix or allow coming into contact with oxidizing agents, hazardous chemical reaction may occur.

# DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Alligare Imazapyr 75 WDG must be used only in accordance with instructions on the label.

## BIOLOGICAL ACTIVITY

Alligare Imazapyr 75 WDG is quickly taken up by the leaves, stems, and roots of plants with accumulations occurring in the growing points of the plant. Growth of treated plants stops soon after treatment. Within one to three weeks after application, the leaves begin to turn yellow (chlorosis) and then gradually become necrotic. Death of the plants may require several more weeks. Alligare Imazapyr 75 WDG is rain-fast at one hour after application.

## TANK MIXTURES

Alligare Imazapyr 75 WDG may be tank mixed with other herbicides and /or adjuvants registered for the uses specified in the product label. Refer to the label of the tank mix partner (s) for any additional instructions or use restrictions. Tank mixing with 2,4 -D or products which contain 2,4-D has resulted in reduced performance of Alligare Imazapyr 75 WDG.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## ADJUVANTS

For best performance, include a spray adjuvant when making postemergence applications of Alligare Imazapyr 75 WDG.

**Nonionic Surfactants:** Use a non-ionic surfactant at a minimum rate of 0.25% v/v (1 quart surfactant per 100 gallons of spray solution). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 90% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol must not be considered as surfactants to meet the above requirements).

**Methylated Seed Oils or Vegetable Oils:** Under temperature or moisture stress conditions, a methylated seed oil (MSO) or vegetable oil based adjuvant may provide increased leaf absorption of Alligare Imazapyr 75 WDG. Refer to the manufacturer's label for specific rates instructions.

**Silicone Based Surfactants:** Silicone based adjuvants reduce the surface tension of the spray droplet allowing better coverage of the leaf surface compared to some nonionic surfactants. In some cases, the silicone adjuvant may dry too quickly limiting uptake. Refer to the manufacturer's instructions for use rates.

**Utility Modifiers:** An anti-foaming agent, spray pattern indicator or drift reducing agent may be applied at the product labeled rate if needed or desired. Refer to the manufacturer's label for specific rate instructions.

**Invert Emulsions:** Alligare Imazapyr 75 WDG may be applied as an invert emulsion. The spray solution results in an invert (water-in-oil) spray emulsion designed to minimize spray drift and spray run-off, resulting in more herbicide on the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Consult the invert chemical label for proper mixing directions.

## **Ammonium Nitrogen Fertilizer**

In addition to a non-ionic surfactant or seed oil concentrate, ammonium nitrogen fertilizer may be added to the Alligare Imazapyr 75 WDG spray solution. Use 32 to 48 ounces per acre of a high-quality urea ammonium nitrate (UAN), including 28% N or 32% N, or a spray-grade ammonium sulfate (AMS).

## **INVASIVE SPECIES MANAGEMENT**

This product may be considered for use on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) National Early Detection and Rapid Response (EDRR) System for invasive plants. Effective EDRR systems address invasions by eradicating the invader where possible and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is recommended, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible eliminate the invader. Consult your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response provisions and allowed treatments in your area.

## **RESISTANCE MANAGEMENT**

For resistance management, Alligare Imazapyr 75 WDG is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to Alligare Imazapyr 75 WDG and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same use site. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Avoid the consecutive use of Alligare Imazapyr 75 WDG or other target site of action Group 2 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective and to monitor weed populations for early signs of resistance development.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your Alligare, LLC retailer, representative or call 888-252-4427. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

## **INTEGRATED PEST MANAGEMENT**

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

## **PREPARING FOR USE • SITE-SPECIFIC CONSIDERATIONS**

Understanding the risks associated with the application of Alligare Imazapyr 75 WDG is essential to aid in preventing off-site injury to desirable vegetation and agricultural crops. The risk of off-site movement both during

and after application may be affected by a number of site-specific factors including the nature, texture, and stability of the soil; the intensity and direction of prevailing winds; vegetative cover; site slope; rainfall; drainage patterns; and other local physical and environmental conditions. Make a careful evaluation of the potential for off-site movement from the intended application site, including movement of treated soil by wind or water erosion, prior to using Alligare Imazapyr 75 WDG. This evaluation is particularly critical where desirable vegetation or crops are grown on neighboring land for which the use of Alligare Imazapyr 75 WDG is not labeled. If prevailing local conditions may be expected to result in off-site movement and cause damage to neighboring desirable vegetation or agricultural crops, do not apply Alligare Imazapyr 75 WDG.

Before applying Alligare Imazapyr 75 WDG the user must read and understand all label directions, precautions, and restrictions completely, including these requirements for a site-specific evaluation. If you do not understand any of the instructions or precautions on the label or are unable to make a site-specific evaluation yourself, consult your local agricultural dealer, cooperative extension service, land managers, professional consultants, or other qualified authorities familiar with the area to be treated.

## AGRICULTURAL USES

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Protective eyewear
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material

### PRODUCT INFORMATION

Alligare Imazapyr 75 WDG is a water-dispersible granule to be mixed with water and applied as a postemergent spray for the control of many broadleaf weeds, annual and perennial grasses, brush, vines, and brambles in conifer plantations (site preparation and release) and wildlife management areas. For perennial species on the label, make a postemergence application. For best performance, add an adjuvant to the spray solution (see **Adjuvants** section for directions).

Alligare Imazapyr 75 WDG may be applied by ground spray equipment (boom sprayers, backpack sprayers, tree injection, etc.) and by aerial spray equipment. Fixed wing aircraft and helicopters can be used to apply Alligare Imazapyr 75 WDG, however, do not make applications by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, when treating open tracts of land, spray drift as a result of fixed wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, including a helicopter equipped with a Microfoil (TM) boom, Thru- Valve (TM) boom, or raindrop nozzles, must be used and calibrated. Except when applying with a Microfoil boom, a drift control agent may be added at the labeled rate.

In certain natural regeneration conifer sites, it may be used for selective herbaceous and woody weed control. Alligare Imazapyr 75 WDG can also be used for cut stem and stump treatments, for the control of woody vegetation along forest roads, and for establishing and maintaining wildlife openings, except in the state of California. It may also be used to control weeds along the banks of drainage (non-irrigation) ditches. Only the edge of drainage ditches can be treated for drainage ditches that contain water.

Alligare Imazapyr 75 WDG may be applied on conifer plantations and wildlife management areas that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by management activities in these sites, except in the states of California and New York. It is permissible to treat drainage ditches, intermittent drainage sites, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and low land sites when no water is present,

except in the states of California and New York. It is also permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York.

Applying or draining or flushing equipment on or near sensitive desirable plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots may cause severe injury or death to these plants.

Good spray coverage of the target plant is desired. Avoid excessive wetting which causes the spray to run off target plants. Alligare Imazapyr 75 WDG may be applied by either ground or aerial spray equipment.

**Restriction: DO NOT** treat irrigation ditches or water used for crop irrigation or for domestic uses.

Note: Injury or loss of desirable trees or other plants may result if Alligare Imazapyr 75 WDG is applied on or near desirable trees or other plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots.

### Mandatory Spray Drift Directions

#### Aerial Applications

- Do not release spray at a height greater than 10 ft. above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a coarse or coarser spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### Ground Applications

- Apply with a nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a coarse or coarser spray droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### Boom-less Ground Applications

- Applicators are required to use a coarse or coarser spray droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### ○ Spray Drift Advisories

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE  
An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.  
Controlling Droplet Size - Ground Boom
  - Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
  - Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
  - Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.
- BOOM HEIGHT - Ground Boom  
Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.
- RELEASE HEIGHT - Aircraft  
Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
- SHIELDED SPRAYERS  
Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.
- TEMPERATURE AND HUMIDITY  
When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.
- TEMPERATURE INVERSIONS  
Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.
- WIND  
Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.
- Boom-less Ground Applications:  
Setting nozzles at the lowest effective height will help reduce the potential for spray drift.
- Handheld Technology Applications:  
Take precautions to minimize spray drift.

#### Drift Control Additives

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe precautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution.

#### Wind Erosion

Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface must first be settled by rainfall or irrigation.

## CONIFER PLANTATIONS

### APPLICATION INFORMATION

#### SITE PREPARATION

Alligare Imazapyr 75 WDG controls the labeled weed species prior to planting the conifer species below. Use the higher spray volumes and herbicide rates for heavy weed/brush infestations, hard to control species, and dense hardwood canopies.

Conifer Species	Rate (ounces per acre)
Loblolly pine ( <i>pinus taeda</i> )	16- 26.7 (0.75 – 1.25 lb a.i.)
Loblolly X Pitch Hybrid	16- 26.7 (0.75 – 1.25 lb a.i.)
Longleaf pine ( <i>Pinus palustris</i> )	16- 26.7 (0.75 – 1.25 lb a.i.)
Shortleaf pine ( <i>Pinus echinata</i> )	16- 26.7 (0.75 – 1.25 lb a.i.)

Virginia pine ( <i>Pinus virginiana</i> )	16- 26.7 (0.75 – 1.25 lb a.i.)
Slash pine ( <i>Pinus elliotii</i> )	13.3- 21.3 (0.62 – 1.0 lb a.i.)
Douglas fir ( <i>Pseudotsuga menziesii</i> )	8- 16 (0.375 – 0.75 lb a.i.)
Coastal redwood ( <i>Sequoia sempervirens</i> )	8- 16 (0.375 – 0.75 lb a.i.)
Western hemlock ( <i>Tsuga heterophylla</i> )	8- 16 (0.375 – 0.75 lb a.i.)
California red fir ( <i>Abies magnifica</i> )	8- 13.3 (0.375 – 0.62 lb a.i.)
California white fir ( <i>Abies concolor</i> )	8- 13.3 (0.375 – 0.62 lb a.i.)
Jack pine ( <i>Pinus banksiana</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Lodgepole pine ( <i>Pinus contorta</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Pitch pine ( <i>Pinus rigida</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Ponderosa pine ( <i>Pinus ponderosa</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Sugar Pine ( <i>Pinus lambertiana</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
White pine ( <i>Pinus strobus</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Black spruce ( <i>Picea mariana</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
Red spruce ( <i>Picea rubens</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)
White spruce ( <i>Picea glauca</i> )	8- 10.7 (0.375 – 0.5 lb a.i.)

Alligare Imazapyr 75 WDG applied postemergence at the specified broadcast rates in the above table will provide control of many brush plants in conifer plantations. Allow 4 to 6 weeks after application for control of most herbaceous and grass weeds. The dead or dying plants may aid a site preparation burn, if needed. The residual activity of Alligare Imazapyr 75 WDG will aid in the control of herbaceous weeds.

For ground boom or backpack spray equipment, apply Alligare Imazapyr 75 WDG in a total spray volume of 5 to 100 gallons per acre. For helicopter applications, use a total spray volume of 5 to 30 gallons per acre. Include a spray adjuvant with all postemergence applications. Use the higher spray volumes and herbicide rates for heavy weed/brush infestations, hard to control species, and dense hardwood canopies.

For quick brown out of foliage to aid burning, add the labeled rate per acre of glyphosate (4 pounds active per gallon) or triclopyr (4 pound active per gallon).

In site preparation areas with seedling pines, apply a tank mix of Alligare Imazapyr 75 WDG at 11.2 to 20.8 ounces (0.525 – 0.975 lb a.i.) per acre plus the labeled rate of glyphosate (4 pound active per gallon) per acre. When using Alligare Imazapyr 75 WDG at rates less than 16 ounces (0.75 lb a.i.) per acre, expect only suppression of trees and hardwood brush species.

#### Restrictions:

To reduce the potential for injury, **DO NOT** plant white or black spruce seedlings for 3 months following a banded or broadcast application of Alligare Imazapyr 75 WDG.

**DO NOT** apply more than 26.7 ounces (1.25 lb a.i.) Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications of Alligare Imazapyr 75 WDG at the 8-ounce (0.375 lb a.i.) rate per year.

**DO NOT** make broadcast applications less than 14 days apart.

For individual plant/spot treatment, retreat as needed however **DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

#### HERBACEOUS WEED CONTROL

Use Alligare Imazapyr 75 WDG for selective weeding in the following conifer species. Use the higher rate for hard to control weed or brush species or heavy weed or brush infestations.

Conifer Species	Rate (ounces per acre)
Loblolly pine	4-6.7 (0.19-0.31 lb a.i.)
Loblolly X Pitch Hybrid	4-6.7 (0.19-0.31 lb a.i.)
Virginia pine	4-6.7 (0.19-0.31 lb a.i.)
Longleaf pine*	2.7-4 (0.13-0.19 lb a.i.)
Slash Pine*	2.7-4 (0.13-0.19 lb a.i.)
Douglas fir*	2.7-4 (0.13-0.19 lb a.i.)

\*The use of an adjuvant is not advised.

For herbaceous weed control in established conifer seedlings, apply Alligare Imazapyr 75 WDG, at the above rates, as a directed spray, or as banded or broadcast spray over-the-top of the conifer seedlings. Apply by helicopter, ground boom or backpack sprayers for broadcast applications. For best results, make applications to newly emerged weeds.

When herbaceous weeds are taller than the conifer seedlings, an adjuvant (non-ionic surfactant) may be included. Refer to the manufacturer's label for specific use rates. The addition of an adjuvant is not required for over-the-top applications in Longleaf pine, Slash pine, or Douglas fir sites. If applications are made when conifers are actively growing, minor conifer stunting (growth inhibition) may occur.

To help prevent the possibility of conifer injury, **DO NOT** apply Alligare Imazapyr 75 WDG when conifers are under stress from drought, diseases, animal or winter injury, planting shock, or other stresses that may reduce conifer vigor. For directed applications around and under conifer seedlings, Alligare Imazapyr 75 WDG may be applied with hand-held or backpack sprayers for herbaceous weed control. To help prevent conifer injury, direct the spray to the weeds to reduce the amount of spray solution contacting the conifer foliage. **DO NOT** exceed the maximum labeled rate per acre for the various conifer species in the table.

Alligare Imazapyr 75 WDG may be tank mixed with Alligare SFM 75 to broaden the spectrum of weeds controlled. For loblolly pine, apply 2.7 to 4 ounces (0.13-0.19 lb a.i.) of Alligare Imazapyr 75 WDG plus the labeled amount of Alligare SFM 75 per acre. The application of Alligare Imazapyr 75 WDG plus Alligare SFM 75 on other conifer species may cause growth suppression.

#### Restrictions:

**DO NOT** apply more than 6.7 ounces (0.31 lb a.i.) Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications per year.

**DO NOT** make broadcast applications less than 14 days apart.

For individual plant/spot treatment, retreat as needed however **DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

## CONIFER RELEASE

A broadcast or directed application of Alligare Imazapyr 75 WDG may be used to suppress labeled herbaceous, tree, or brush species. In all ages of conifer stands, a low volume, directed spray application may be made to the targeted weed species while avoiding contact with the conifer foliage. Make sure to not apply more than the rates listed below as intolerable (excessive) conifer injury may occur. Where infestations of hardwood brush species are competing with the conifers, make a broadcast application of Alligare Imazapyr 75 WDG at the rate per conifer species listed below. Use the higher herbicide rates for heavy weed/brush infestations, hard to control species, and dense hardwood canopies.

Conifer Species	Rate (ounces per acre)
Loblolly pine <sup>3</sup>	8 - 13.3 (0.375 – 0.62 lb a.i.)
Loblolly X Pitch Hybrid <sup>3</sup>	8 - 13.3 (0.375 – 0.62 lb a.i.)
Virginia pine <sup>3</sup>	8 - 13.3 (0.375 – 0.62 lb a.i.)
Longleaf pine	8 - 13.3 (0.375 – 0.62 lb a.i.)
Pitch pine	8 - 13.3 (0.375 – 0.62 lb a.i.)
Shortleaf pine	8 - 13.3 (0.375 – 0.62 lb a.i.)
Slash pine	8 - 13.3 (0.375 – 0.62 lb a.i.)
White pine <sup>1</sup>	5.3 - 10.7 (0.25 – 0.50 lb a.i.)
California red fir	5.3 – 8 (0.25 – 0.375 lb a.i.)
California white fir	5.3 – 8 (0.25 – 0.375 lb a.i.)
Lodgepole pine <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)
Douglas fir <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)
Jack pine <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)
Black spruce <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)
Red spruce <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)
White spruce <sup>2</sup>	5.3 – 8 (0.25 – 0.375 lb a.i.)

<sup>1</sup> For release applications, White pine stands must be a minimum of 3 years old. To reduce injury potential, make applications after July 15th.

<sup>2</sup> Make applications after formation of final conifer resting buds in the fall or height stunting (growth inhibition) may occur.

<sup>3</sup> Mid rotation release: For broadcast applications underneath the pine canopy in established stands of Loblolly pine, Loblolly X Pitch Hybrid and Virginia pine use 10.7 to 16 ounces (0.69 – 0.75 lb a.i.) per acre. For mid rotation release of other conifer species use the rates listed above.

**Note:** In Longleaf pine and Slash pine stands, to control woody brush, make broadcast over-the-top release applications after August 15th. Only make applications to Longleaf and Slash pines that are 2 to 5 years old. **DO NOT** include an adjuvant and use the lower release rates on sandy soils.

When release applications are made during periods of active conifer growth, minor stunting (slowing of growth) may occur. In conifers, except loblolly pine, only make broadcast applications of Alligare Imazapyr 75 WDG after the second season of growth. To reduce the potential for minor stunting, make broadcast release applications late in the growing season.

During the first growing season after planting of loblolly pines or in one year old naturally regenerated loblolly pine sites, Alligare Imazapyr 75 WDG may be used for release treatments. For release of loblolly pines that are one year old apply Alligare Imazapyr 75 WDG at 8 to 13.3 ounces (0.37 – 0.62 lb a.i.) per acre.

A non-ionic surfactant may be included with this treatment, but may also increase potential conifer damage. Refer to the manufacturer’s label for specific use rates.

For hard to control species or heavy infestations, use the higher labeled rates of Alligare Imazapyr 75 WDG.

**Restrictions:**

**DO NOT** apply Alligare Imazapyr 75 WDG when conifers are under stress from diseases, drought, animal or winter injury, or other environmental or mechanical stresses as injury may occur.

**DO NOT** apply more than 16 ounces (0.75 lb a.i.) Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications per year when using reduced application rates.

**DO NOT** make broadcast applications less than 14 days apart.

For individual plant/spot treatment, retreat as needed however **DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**SPOT TREATMENT - RELEASE**

In all ages of conifers, a directed postemergence or cut stem application of Alligare Imazapyr 75 WDG may be applied to control unwanted hardwoods or other brush. In Ponderosa pine stands, cut stem applications, at 8 ounces (0.375 lb a.i.) or less per acre, may be used as spot treatments for hardwood control. Take care to not make direct applications to desired plants as injury may occur. Injury may also occur to desired hardwoods or conifers where their roots extend into the treated area or if they share the same root system or their roots have become grafted to those of the treated trees.

**Restrictions:**

**DO NOT** apply Alligare Imazapyr 75 WDG when conifers are under stress from diseases, drought, animal or winter injury, or other environmental or mechanical stresses as injury may occur.

**DO NOT** apply more than 16 ounces (0.75 lb a.i.) Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications per year when using reduced application rates.

**DO NOT** make applications less than 14 days apart.

For individual plant/spot treatment, retreat as needed however **DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**MIXING AND APPLICATION INFORMATION**

Apply Alligare Imazapyr 75 WDG at the following use rates depending upon the vegetation to be controlled and the type of application being made. Use the higher spray volumes and herbicide rates for heavy weed/brush infestations, hard to control species and dense hardwood canopies.

<b>Vegetation</b>	<b>Type Application</b>	<b>Type Use Rate</b>
Hardwood trees and brush	Directed foliar or spot spray	2.2 to 4.4 ounces (0.1 – 0.2 lb a.i.) per 3 gallons of water
Stump or cut stem		4.4 ounces (0.2 lb a.i.) per gallon of water
Herbaceous weeds	Broadcast	2.2 to 6.6 (0.1 – 0.3 lb a.i.) ounces per acre

See specific use directions in appropriate section.

**Ground Operated Spray Equipment:** Thoroughly mix and apply the specified amount of Alligare Imazapyr 75 WDG in a minimum of 5 gallons of spray solution per acre. To mix, fill the spray tank with one-half to three-quarters of the desired volume with clean water. Add the required amount of Alligare Imazapyr 75 WDG to the spray tank while agitating. Add additional water to achieve the desired spray volume and agitate again. A suitable adjuvant (see Adjuvant section) may be added to the spray solution to enhance control of undesirable vegetation. A drift control agent and a foam reducing agent may be added at the label rates, if needed. If desired, a spray pattern indicator may be added at the label rate.

For best results, uniformly cover the foliage of the vegetation to be controlled with the spray solution.

**Side Trimming: DO NOT** side trim with Alligare Imazapyr 75 WDG unless severe injury or death of the treated tree can be tolerated. Alligare Imazapyr 75 WDG is readily translocated and can result in death of the entire tree.

#### **DIRECTED FOLIAR OR SPOT SPRAY APPLICATIONS**

When making directed or spot spray applications with ground spray equipment, or low-volume hand-operated spray equipment, thoroughly mix a solution of Alligare Imazapyr 75 WDG and include a nonionic surfactant at a minimum of 0.25% by volume. Refer to the manufacturer's label for specific use rates.

Use higher spray volumes and herbicide rates for heavy weed/brush infestations, hard to control species, and dense hardwood canopies.

**Application Tips:** For low volume, select proper nozzles to avoid over-application. Proper application is critical to ensure desirable results. Best results are achieved when the spray covers the crown and approximately 70 percent of the plant.

**Proper Spray Pattern:** Moisten but **DO NOT** drench target vegetation, causing spray solution to run off.

**Low Volume with Backpacks:** For brush up to 4 feet tall, spray down on the crown, covering crown and penetrating approximately 70% of the plant.

**For brush 4 to 8 feet tall:** Lace the sides of the brush by directing spray to at least two sides of the plant in smooth vertical motions from the crown to the bottom. Make sure to cover the crown whenever possible.

**For brush over 8 feet tall:** Lace the sides of the brush by directing spray to at least two sides of the target in smooth zigzag motions from crown to bottom.

**Low Volume with Hydraulic Handgun Application Equipment:** Use same technique as described above for individual stem treatments.

#### **BROADCAST APPLICATIONS**

For broadcast applications, simulate a gentle rain near the top of target vegetation, allowing spray to contact the crown and penetrate the target foliage without falling to the understory. Herbicide spray solution which contacts the under story may result in severe injury or death of plants in the under story.

**Restriction: DO NOT** exceed 26.4 ounces (1.2 lb a.i.) of Alligare Imazapyr 75 WDG per acre.

#### **STUMP AND CUT STEM TREATMENTS**

Alligare Imazapyr 75 WDG may be used to control undesirable woody vegetation by applying a solution of the herbicide in water to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall.

**Mixing:** Alligare Imazapyr 75 WDG may be mixed and applied as a dilute solution to the surface of the stump or to cuts on the stem of the target woody vegetation. To prepare a dilute solution, thoroughly mix 4.4 ounces (0.21 lb a.i.) of Alligare Imazapyr 75 WDG with one gallon of water.

**For cut stump treatments:** Spray or brush the solution onto the cambium area of the freshly cut stump surface. Ensure that the solution thoroughly wets the entire cambium area (the wood next to the bark of the stump).

**For tree injection treatments:** Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one inch intervals between cut edges. Ensure that the injector completely penetrates the bark at each injection site.

**For frill or girdle treatments:** Using a hatchet, machete, or similar device, make cuts through the bark at intervals around the tree with no more than two-inch intervals between cut edges. Spray or brush the solution into each cut until thoroughly wet.

## HERBACEOUS WEED CONTROL

Alligare Imazapyr 75 WDG may be applied as a broadcast treatment using ground sprayers or as a directed treatment using backpack or hand-held sprayers for the control of herbaceous weeds. For broadcast treatments apply Alligare Imazapyr 75 WDG at rates of 2.2 to 6.6 ounces (0.1 – 0.31 lb a.i.) per acre and include a minimum of 0.25% by volume nonionic surfactant.

## PLANT SPECIES SENSITIVITY

The following plant species are not sensitive to Alligare Imazapyr 75 WDG. Many of these species are preferred food, browse, and cover plants for wildlife. These species may be released from herbaceous weed and brush competition with an application of Alligare Imazapyr 75 WDG. Alligare Imazapyr 75 WDG must be used only in accordance with the instructions on this label.

Beggarweed	<i>Desmodium nudiflorum</i>
Beggarweed	<i>Desmodium rotundifolium</i>
Florida beggarweed	<i>Desmodium tortuosum</i>
Black locust	<i>Robinia pseudo-acacia</i>
Blackberry	<i>Rubus argutus</i>
Butterfly pea	<i>Centrosema virginianum</i>
Butterfly pea	<i>Clitoris mariana</i>
Dewberry	<i>Rubus trivialis</i>
Dollar weed	<i>Rhynchosia reniformis</i>
Erect milk pea	<i>Galactia volubilis</i>
Goats rue	<i>Tephrosia virginiana</i>
Ground nut	<i>Apois americana</i>
Hairy rhynchosia	<i>Rhynchosia tomentosa</i>
Hog peanut	<i>Amphicarpa bracteata</i>
Indigo bush	<i>Amorpha fruticosa</i>
Bicolor lespedeza	<i>Lepedeza bicolor</i>
Common lespedeza	<i>Lepedeza striata</i>
Hairy lespedeza	<i>Lepedeza hirta</i>
Japonica lespedeza	<i>Lepedeza japonica</i>
Prostrate lespedeza	<i>Lepedeza procumbens</i>
Roundhead lespedeza	<i>Lepedeza capitata</i>
Thunburg lespedeza	<i>Lepedeza thunburgii</i>
Wand lespedeza	<i>Lepedeza intermedia</i>
Milk pea	<i>Strophostyles helvola</i>
Narrowleaf vetch	<i>Vicia dasycarpa</i>
Partridge pea	<i>Cassia fasciculata</i>
Pencil flower	<i>Stylosanthes biflora</i>
Redbud	<i>Cercis canadensis</i>
Samson snakeroot	<i>Psoralea psoraliodes</i>
Sensitive bria	<i>Schronkiam michrophylla</i>
Sesbania	<i>Sesbania macrocarpa</i>
Small partridge pea	<i>Casia nictitans</i>
Spike tephrosia	<i>Tephrosia specata</i>
Training wild bean	<i>Strophostyles umbellata</i>
Wild Indigo	<i>Indigofera caoliniana</i>
Wild pea	<i>Vigna suteola</i>

The following plant species commonly colonize a site after treatment with Alligare Imazapyr 75 WDG. Seed species may be present in the soil or may be dispersed within the area by wind and animals.

Beautyberry	<i>Calliocalpa americana</i>
Beggar ticks	<i>Bidens spp.</i>
Blue curls	<i>Trichostema dichotomum</i>
Broomsedges	<i>Andropogon spp.</i>
Carpet-weed	<i>Mollugo verticillata</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Dove weed	<i>Croton glandulosus</i>
Evening primrose	<i>Oenothera biennis</i>
Fireweed	<i>Epilobium angustifolium</i>

Florida pursland  
Giant ragweed  
Greenbrier  
Ground cherry  
Lambsquarter  
Lovevine  
Maypop  
Morningglory  
Muscadine grape  
New Jersey tea  
Panic grasses  
Pennsylvania smartweed  
Pigweed  
Poison ivy  
Pokeweed  
Poor-joe  
Sheep-sorrel  
Smooth sumac  
Trumpet vine  
Violets  
Virginia creep  
Wild geranium  
Winged sumac  
Wolly croton  
Yellow wood sorrel

*Richardia scarbra*  
*Ambrosia trifida*  
*Smilax bona-nox*  
*Physalis virginiana*  
*Chenopodium album*  
*Cuscuta gronovii*  
*Passiflora incarnata*  
*Ipomoea purpurea*  
*Vitis rotundifolia*  
*Ceanothus americanus*  
*Panicum spp.*  
*Polygonum pennsylvanicum*  
*Amaranthus hybridus*  
*Rhus radicans*  
*Phytolacca americana*  
*Diadia teres*  
*Rumex hastatulus*  
*Rhus glabra*  
*Campsis radicans*  
*Violet spp.*  
*Parthenocissus quinquefolia*  
*Geranium carolinianum*  
*Rhus copallina*  
*Croton capitatus*  
*Oxalis stricta*

## PASTURE AND RANGELAND

### SPOT APPLICATIONS

Alligare Imazapyr 75 WDG may be used as a spot treatment for weed control in rangelands and grass pastures. Apply with ground equipment at the rate of 0.7 to 16 ounces (0.03 – 0.75 lb a.i.) per acre.

There are no restrictions for grazing.

For rangeland areas, apply Alligare Imazapyr 75 WDG to control specific problem weeds. The successful weed management program depends on land management practices that promote the growth and development of desirable plant species.

This product may be applied to rangeland for the control of undesirable vegetation in order to achieve one or more of the following vegetation management objectives:

1. The control of undesirable (non-native, invasive and noxious) plant species.
2. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland plant species.
3. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland vegetation following a fire.
4. The control of undesirable vegetation for purposes of wildfire fuel reduction.
5. The release of existing desirable rangeland plant communities from the competitive pressure of undesirable plant species.
6. The control of undesirable vegetation for purposes of wildlife habitat management.

Care must be used to protect threatened and endangered plants when applying Alligare Imazapyr 75 WDG in rangeland. To identify endangered plants in your area, work with the Fish and Wildlife Service or state conservation agencies to ensure protection of threatened or endangered plants. Federal agencies follow NEPA regulations, but other organizations or people must operate under a Habitat Conservation Plan to ensure the protection of threatened and endangered plants.

### Restrictions:

**DO NOT** treat more than one tenth of the area to be cut for hay or grazed.

**DO NOT** cut forage grass until 7 days after an Alligare Imazapyr 75 WDG application.

**DO NOT** exceed 16 ounces (0.75 lb a.i.) of Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications per year.

**DO NOT** make applications less than 14 days apart.

**DO NOT** apply more than 48 ounces (1.5 lb a.i.) of Alligare Imazapyr 75 WDG per acre per year.

### **ROTATIONAL CROP GUIDELINES**

When used at the specified rangeland and pasture rates, rotational crops may be planted 12 months after applications of Alligare Imazapyr 75 WDG. Prior to planting any crop a successful field bioassay must be completed — field bioassay to be completed after the 12 month interval.

The field bioassay consists of a test strip of the intended rotational crop planted in the previously treated area in the grass pasture/rangeland sites and grown to maturity. If applicable, ensure the test strip includes low areas and knolls and includes variations in soil type and pH within the treated area. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year. Alligare Imazapyr 75 WDG used according to label directions can allow for normal growth of rotational crops but environmental and agronomic factors may vary resulting in injury to rotational crops at times.

### **WILDLIFE HABITAT MANAGEMENT**

Alligare Imazapyr 75 WDG may be used to control exotic and other undesirable vegetation for purposes of wildlife habitat management and enhancement within forests as well as terrestrial non-crop sites. Applications can be made to control undesirable vegetation (see WEEDS CONTROLLED section) prior to planting desirable species and to release desirable plant species (see PLANT SPECIES SENSITIVITY section). Spot, directed foliar and cut stump and stem treatments can be made to selectively control unwanted plants for wildlife habitat management and enhancement.

#### **Restrictions:**

**DO NOT** apply more than 26.7 ounces (1.25 lb a.i.) Alligare Imazapyr 75 WDG per acre per application.

**DO NOT** apply more than 4 applications of Alligare Imazapyr 75 WDG at the 8-ounce (0.375 lb a.i.) rate per year.

**DO NOT** make broadcast applications less than 14 days apart.

For individual plant/spot treatment, retreat as needed however **DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

**DO NOT** apply more than 32 ounces (1.5 lb a.i.) Alligare Imazapyr 75 WDG per acre per year.

# NON-AGRICULTURAL USES

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Terrestrial non-crop weed control is not within the scope of the Worker Protection Standard. See the Product Information section of this label for a description of non-crop sites.

Do not enter or allow worker entry into treated areas until sprays have dried.

## PRODUCT INFORMATION

Alligare Imazapyr 75 WDG is to be mixed with water and a surfactant, unless otherwise directed, and applied as a spray for the control of undesirable vegetation in terrestrial non-agricultural sites and unimproved turf.

Alligare Imazapyr 75 WDG is to be applied as a spray solution for weed and brush control on private, public, and military lands as follows: uncultivated non-agricultural areas (including airports, highway, railroad and utility rights-of-way, sewage disposal areas); uncultivated agricultural areas - non-crop producing (including farmyards, fuel storage areas, fence rows, non-irrigation ditch banks, barrier strips); industrial sites - outdoor (including lumberyards, pipeline and tank farms) including grazed or hayed areas on these sites. This product may be applied to terrestrial non-crops sites and unimproved turf sites that contain areas of temporary surface water caused by collection of water, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas.

Alligare Imazapyr 75 WDG provides preemergence and postemergence control of the broadleaf weeds, perennial and annual grasses, vines, and brush species found on the label. For perennial species on the label, make a postemergence application. For best performance, add an adjuvant to the spray solution (see **Adjuvants** section for specific directions).

Good spray coverage of the target plant is desired. Avoid excessive wetting which causes the spray to run off target plants. Alligare Imazapyr 75 WDG may be applied by either ground or aerial spray equipment.

Note: Injury or loss of desirable trees or other plants may result if Alligare Imazapyr 75 WDG is applied on or near desirable trees or other plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their root.

### Restriction:

**DO NOT** apply Alligare Imazapyr 75 WDG to dry irrigation canals/ditches.

## APPLICATION INFORMATION

### BRUSH

#### Aerial Applications

Alligare Imazapyr 75 WDG may be applied by either fixed wing aircraft or helicopter spray equipment. Fixed wing aircraft and helicopters can be used to apply Alligare Imazapyr 75 WDG, however, **DO NOT** make applications by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, when treating open tracts of land, spray drift as a result of fixed wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, including a helicopter equipped with a Microfoil(TM) boom, Thru-Valve(TM) boom, raindrop nozzles or Accu-Flow must be used and calibrated. Except when applying with a Microfoil boom, a drift control agent may be added at the specified rate.

For brush sites, uniformly apply the specified amount of Alligare Imazapyr 75 WDG in a minimum of 5 gallons of total spray volume per acre. Use adequate spray volume to provide an accurate and uniform spray droplet distribution over the treated area and to avoid spray drift. Include a nonionic surfactant or methylated seed oil or a silicone-based surfactant in the spray solution (see **Adjuvant** section).

A foam reducing agent may be added at the label rate, if needed. Side trimming is not advised with Alligare Imazapyr 75 WDG unless death of the treated tree can be tolerated. Take precautions to minimize or eliminate spray drift.

Important: Thoroughly clean application equipment, including landing gear, immediately after use of this product will reduce chances of corrosion. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

## GROUND APPLICATIONS

### Low Volume Applications

Apply Alligare Imazapyr 75 WDG in a minimum of 5 gallons of spray solution per acre. Prepare the spray solution by thoroughly mixing in water a sufficient quantity of Alligare Imazapyr 75 WDG to apply 4 to 8 ounces (0.19 – 0.375 lb a.i.) per acre of Alligare Imazapyr 75 WDG plus an advised adjuvant (see the Adjuvant section).

Good plant coverage is necessary for best results. Cover the crown and at least 75% of the plant with the spray solution. Use adequate spray volume to help provide uniform distribution of spray droplets over the treated area and to avoid spray drift. Use the higher rates for hard to control brush species.

**Side Trimming:** Side trimming with Alligare Imazapyr 75 WDG can cause severe injury or death to the treated tree. **DO NOT** make side trimming applications unless death of the tree is acceptable.

### Restrictions:

**DO NOT** apply more than 32 ounces (1.5 lbs a.i.) per acre per year of Alligare Imazapyr 75 WDG.

**DO NOT** apply more than 32 ounces (1.5 lbs a.i.) per application.

**DO NOT** apply more than 4 applications at the 8 ounce rate (0.375 lb a.i.) or 2 applications at the 16 ounce rate (0.75 lb a.i.) per year.

**DO NOT** make applications less than 30 days apart.

## TANK-MIXES AND APPLICATION RATES

Target Vegetation	Alligare Imazapyr 75 WDG (ounces per acre) †	Tank Mix
Mixed hardwoods without elm, locust, or pine	5.3 – 8 (0.25 – 0.375 lb a.i.)	Surfactant
Mixed hardwoods without elm, locust, or pine	4 - 5.3 (0.19 – 0.25 lb a.i.)	Appropriately labeled glyphosate product; refer to product label for specific rates
Mixed hardwoods without elm, locust, or pine	4 - 5.3 (0.19 – 0.25 lb a.i.)	Appropriately labeled fosamine product; refer to product label for specific rates
Mixed hardwoods without elm, locust, or pine	4 - 5.3 (0.19 – 0.25 lb a.i.)	Appropriately labeled metsulfuron-methyl product; refer to product label for specific rates

Tank mixtures with 2,4-D or products containing 2,4-D have resulted in reduced efficacy with Alligare Imazapyr 75 WDG.

†Use the higher spray volumes and herbicide rates for heavy weed/brush infestations, hard to control species and dense hardwood canopies.

### Backpack Sprayers

For backpack manual sprayer applications, spray down on the crown and ensure coverage of 70% of the brush plant for plants up to 4 feet tall. When the plants are up to 8 feet tall, treat at least two sides of the plant. Make swipes vertically from the crown to the base of the plant, covering the crown.

If brush plants are over 8 feet tall, lace at least two sides of the plants with back and forth movements starting at crown and moving downward to base.

### Hydraulic Handgun Equipment

When making broadcast applications, apply near the tops of the brush plants in a light drizzle pattern. Ensure the spray solution reaches the crown of the plants and trickles down into the canopy but does not reach the under-story plant growth as severe injury or death of the under-story plants could occur.

### High Volume Applications

When treating medium to high infestations of brush, apply Alligare Imazapyr 75 WDG at up to 100 gallons of spray solution per acre (GPA). Mix Alligare Imazapyr 75 WDG at 11.2 to 32 ounces (0.53 – 1.5 lbs a.i.) per acre

plus a surfactant. Add a foam reducing agent if needed. Refer to the manufacturer's label for specific use rates. Use the higher rate for hard to control brush species but **DO NOT** apply more than 32 ounces (1.5 lbs a.i.) per acre. Apply evenly to cover brush foliage but don't over apply causing run-off.

Note: Spray applications exceeding 100 GPA may cause injury to the under-story or ground cover due to spray run-off.

### **Invert Emulsions Applications**

Alligare Imazapyr 75 WDG can be applied as an invert emulsion (water in oil). This can be done in a batch mixing (single tank) or inline-mixing (injected) process. Follow the directions on the invert chemical guide.

### **Cut Stubble Applications**

To control or suppress re-sprouting, make an application of Alligare Imazapyr 75 WDG within 2 weeks after mechanical cutting or mowing of brush. To aid stem or exposed root absorption of the Alligare Imazapyr 75 WDG include a penetrating agent at the rate of 5% v/v. Refer to the manufacturer's label for specific use rates.

Picloram may be tank mixed with Alligare Imazapyr 75 WDG to aid the control of brush and blackberry species. Make applications to the cut brush, the stumps and to the soil. Applications to the soil may allow nearby desirable tree roots to contact the treated area causing injury or death to desirable trees.

Waiting to treat re-sprouted brush foliage can be more efficacious to the brush and less injurious to desirable trees as less spray solution contacts the soil.

### **DILUTE SOLUTION APPLICATIONS**

#### **Cut Stump treatments**

To control recently cut target brush, apply Alligare Imazapyr 75 WDG solution to the newly cut stump or stem surfaces (cambium area). Brush or spray the dilute solution onto the newly cut stem or stump surface - apply to the cambium area (the wood surface next to the bark of the stump). Make sure the entire cambium area is thoroughly covered with the solution. **DO NOT** make applications during the early spring period when sap flow is heaviest. Excess application may cause puddling or run off. Desirable trees whose roots may share the same root system or may have become grafted to the treated tree/brush may be severely injured.

Note: Alligare Imazapyr 75 WDG may be applied as either a dilute or concentrated solution for this type of application. For cut stem or stump surfaces, a dilute solution may be used. For applications to cuts made to the stems, apply Alligare Imazapyr 75 WDG as a concentrated solution. For larger diameter trees, using the concentrated solution allows fewer cuts to the stems. When cut areas have become partially callused, adding an adjuvant or penetrating agent may aid absorption into the stem or stump.

**Tree Injection treatments:** Apply 1 milliliter of solution through commercial injection equipment into each injection site around the tree. Allow no more than one-inch intervals between cut edges. Make sure that the injector penetrates the tree bark at each site.

**Frill or Girdle treatments:** With no more than two-inch intervals between cut edges, use a machete, hatchet, or similar equipment to make cuts through the bark around the tree. Brush or spray the solution directly into each cut thoroughly wet each cut with the solution.

### **CONCENTRATED SOLUTION APPLICATIONS**

For concentrated solutions, add 20.8 ounces (0.975 lb a.i.) of Alligare Imazapyr 75 WDG to a maximum of 1 quart of water.

**Tree Injection treatments:** With appropriate equipment, apply 1 milliliter of concentrated Alligare Imazapyr 75 WDG solution into each injection site around the tree. For each 3 inches of Diameter at Breast Height (DBH) of the target tree, make at least one injection cut. Using this method, a 6-inch DBH tree would get at least two injection cuts. For larger trees that require more than one injection site, make the injection cuts at equal distances around the tree.

**Frill or Girdle treatments:** With a machete, hatchet, or similar equipment, make cuts through the bark at equal distances around the tree. For each 3 inches of Diameter at Breast Height (DBH) of the target tree, make at least one injection cut. Using this method, a 6-inch DBH tree would get at least two injection cuts. For larger trees that require more than one injection site, make the injection cuts at equal distances around the tree.

**Note:** Injury may occur to desirable woody plants if the shoots extend from the same root system or their root systems are grafted to those of the treated tree.

## UNDER PAVED SURFACES APPLICATIONS

In industrial sites or where the pavement perimeter has a suitable barrier that prevents roots of desirable plants from encroaching into the treated area, Alligare Imazapyr 75 WDG may be used to control weeds under pond liners, asphalt and other paved areas.

Alligare Imazapyr 75 WDG is not to be used under pavement in residential or recreational areas. **DO NOT** use Alligare Imazapyr 75 WDG under paved areas including driveways, parking lots, bike or jogging paths, golf cart paths, tennis courts or when landscape planting could be anticipated. Where roots of desirable plants are present or may extend into the treated area, injury or death of these plants may result. Shrub or tree roots may extend well beyond the branch/limb extremities or drip line.

Only apply Alligare Imazapyr 75 WDG following the final grading of the site to be paved. After the Alligare Imazapyr 75 WDG application, **DO NOT** disturb or move the soil. On a per acre basis, add 32 ounces (1.5 lbs a.i.) of Alligare Imazapyr 75 WDG to a minimum of 100 gallons of water (0.73 ounces Alligare Imazapyr 75 WDG per 1000 square feet; 0.03 lb a.i. per 1000 square feet) to help ensure a uniform and thorough coverage of the site surface and shoulder areas.

Incorporate Alligare Imazapyr 75 WDG by rainfall (minimum of 1 inch) or mechanical equipment for proper activation. If no rainfall or irrigation occurs, use a roto-tiller or disc and incorporate Alligare Imazapyr 75 WDG 4 to 6 inches deep into the soil.

### Restrictions:

**DO NOT** apply more than 32 ounces Alligare Imazapyr 75 WDG (1.5 lbs a.i.) per acre per application.

**DO NOT** apply more than 32 ounces Alligare Imazapyr 75 WDG (1.5 lbs a.i.) per acre per year.

**DO NOT** make more than 1 application prior to paving per year.

**DO NOT** allow soil from the treated site to move or wash into untreated areas.

**Important:** Follow Alligare Imazapyr 75 WDG applications with paving as soon as possible.

## UNIMPROVED BERMUDAGRASS AND BAHIAGRASS TURF APPLICATIONS

Alligare Imazapyr 75 WDG may be used in non-crop industrial sites, including utility rights-of-way and roadsides, for weed control where either bahiagrass or common bermudagrass or coastal bermudagrass is the established turf.

Applications to bermudagrass will cause stunting and seed head inhibition.

Apply Alligare Imazapyr 75 WDG by ground equipment only. Use a minimum of 10 gallons of water per acre and a spray pressure of 20 to 50 pounds per square inch (psi).

**Important:** A temporary chlorosis (yellowing) may occur if applications are made after growth begins.

### Restrictions:

**DO NOT** apply more than 8 ounces Alligare Imazapyr 75 WDG (0.375 lb a.i.) per acre per application. See **RATES AND TIMINGS** section below for specific rates based on type of grass and timing.

**DO NOT** apply more than 32 ounces Alligare Imazapyr 75 WDG (1.5 lbs a.i.) per acre per year.

**DO NOT** make more than 4 applications at the 8-ounce (0.375 lb a.i.) per acre rate per year.

**DO NOT** make applications less than 14 days apart.

**DO NOT** include surfactants at a rate greater than 1 ounce per 25 gallons of spray solution.

**DO NOT** apply in the first growing season of either bahiagrass or bermudagrass.

**DO NOT** apply Alligare Imazapyr 75 WDG to grass under stress from disease, insects, drought, or other causes.

## RATES AND TIMINGS

**BERMUDAGRASS-** In dormant bermudagrass, Alligare Imazapyr 75 WDG may be applied at 2 to 4 ounces (0.09 – 0.19 lb a.i.) per acre. When bermudagrass has attained the full green-up stage of growth, Alligare Imazapyr 75 WDG may be applied at 2 to 2.7 ounces (0.09 – 0.13 lb a.i.) per acre. Treatments made prior to the full green-up stage will delay green-up.

For broader spectrum preemergence control of grasses and broadleaf weeds, Alligare Imazapyr 75 WDG may be tank mixed with pendimethalin. See the pendimethalin label for use rates and any other application information.

For Johnsongrass control in bermudagrass, apply a tank mixture of Alligare Imazapyr 75 WDG at 8 ounces (0.375 lb a.i.) per acre plus the labeled rate of glyphosate plus a surfactant. For additional control of broadleaf weeds and vines, an appropriate labeled triclopyr product may be added to the above mixture at the label specified rate per acre. Observe all precautions and restrictions on the tank mixture partner label(s).

**BAHIAGRASS-** For bahiagrass in the dormant to early greenup stage of growth, Alligare Imazapyr 75 WDG may be applied at the rate of 1.3 to 2.7 ounces (0.08 – 0.13 lb a.i.) per acre.

**Restriction:**

**DO NOT** apply Alligare Imazapyr 75 WDG to bahiagrass beyond the 25% green-up stage of growth. Include a surfactant in the spray solution.

**WEEDS CONTROLLED**

Bedstraw	( <i>Galium</i> spp.)
Bishopweed	( <i>Ptilimnium capillaceum</i> )
Buttercup	( <i>Ranunculus parviflorus</i> )
Carolina geranium	( <i>Geranium carolinianum</i> )
Fescue	( <i>Festuca</i> spp.)
Foxtail	( <i>Setaria</i> spp.)
Johnsongrass, seedling	( <i>Sorghum halepense</i> )
Little barley	( <i>Hordeum pusillum</i> )
Wild carrot	( <i>Daucus carota</i> )
White clover	( <i>Trifolium repens</i> )
Yellow woodsorrel	( <i>Oxalis stricta</i> )

**GRASS GROWTH AND SEED-HEAD SUPPRESSION**

For areas of unimproved turf grass, Alligare Imazapyr 75 WDG may be used for the suppression of grass growth and seed-head development. Depending on the environmental conditions at time of treatment, applications to desirable turf grass may cause discoloration or injury. For best results, make applications before stem (culm) elongation. Alligare Imazapyr 75 WDG applications may be made prior to or after mowing. For applications before mowing, ensure the grass has had at least 3 days of active growth. For applications made after mowing, allow time for the grass to recover. Alligare Imazapyr 75 WDG applications made too soon before or after mowing could result in increased grass injury.

Check turf grass conditions first before making Alligare Imazapyr 75 WDG applications.

**Restriction: DO NOT** apply to grass under stress from cold, insects, diseases, drought, damage, etc. or severe injury or death may occur.

**Bermudagrass:** Apply Alligare Imazapyr 75 WDG at 2 to 2.7 ounces (0.09 – 0.13 lb a.i.) per acre from early green-up to prior to seed head initiation.

**Restriction: DO NOT** add a surfactant for this application.

**Cool Season Unimproved Turf:** Apply at a rate of 0.7 ounces (0.03 lb a.i.) per acre plus non-ionic surfactant. Refer to the manufacturer's label for specific use rates. For increased suppression, tank mix with an appropriately labeled glyphosate product at the specified rate or an appropriately labeled mefluidide product at the specified rate.

**Note:** Tank mixtures may increase injury to desired turf. Consult each product label for specific turf species and other use directions and precautions. Tank mixes with 2,4 -D or products containing 2,4-D may decrease the effectiveness of Alligare Imazapyr 75 WDG.

**TOTAL VEGETATION CONTROL**

**BAREGROUND**

Alligare Imazapyr 75 WDG may be used in sites for bareground (total vegetation control) weed control. Preemergence or postemergence applications of Alligare Imazapyr 75 WDG provides control of many annual and perennial broadleaf and grass weeds.

It may be used alone at 8 to 32 ounces (0.375 – 1.5 lbs a.i.) per acre or in tank mixes with other products registered for use on bareground sites. Consult the manufacturer's labels for specific rates, weeds controlled, and use restrictions. Make applications using a spray volume of up to 100 gallons per acre and include an adjuvant.

Apply at any time of the year. Make a thorough and uniform application with calibrated spray equipment per label instructions. Use the higher rates of Alligare Imazapyr 75 WDG for fall applications and in previously untreated areas or areas with high weed infestations.

For postemergence applications always include a spray adjuvant. For faster brown-out or burn down results, add glyphosate or similar products to the tank.

As above for postemergence applications, the addition of glyphosate or similar products may be added for faster brown-out or burndown of the escaped weeds. For added residual weed control or to broaden the weed control spectrum, tank mix with other residual products registered for use on bareground sites. The level and length of control will depend on the herbicide(s) rate applied, amount of rainfall, the soil texture, and other environmental and applications conditions.

**Restrictions:**

**DO NOT** apply more than 32 ounces Alligare Imazapyr 75 WDG (1.5 lbs a.i.) per acre per application.

**DO NOT** apply more than 32 ounces Alligare Imazapyr 75 WDG (1.5 lbs a.i.) per acre per year.

**DO NOT** make more than 4 applications at the 8-ounce (0.375 lb a.i.) per acre rate per year.

**DO NOT** make applications less than 14 days apart.

**WEEDS CONTROLLED**

Alligare Imazapyr 75 WDG provides postemergence control and some residual control of the annual weeds in the following tables. The degree of control is both rate and species dependent. Postemergence applications generally provide best control of established biennials and perennial weeds. All rates in the Weeds Controlled table are expressed in the amount of herbicide required for broadcast applications. Review the weed lists and foot notes for additional application information prior to treating.

**GRASSES**

**Apply 11.2 to 16 ounces (0.525 – 0.75 lb a.i.) per acre<sup>1</sup>**

<b>COMMON NAME</b>	<b>GENUS SPECIES</b>
Bluegrass, annual	<i>Poa annua</i>
Broadleaf signalgrass	<i>Brachiaria platyphylla</i>
Canada bluegrass	<i>Poa compressa</i>
Downy brome	<i>Bromus tectorum</i>
Fescue	<i>Festuca</i> spp.
Foxtail	<i>Setaria</i> spp.
Italian ryegrass	<i>Lolium multiflorum</i>
Johnsongrass <sup>1</sup>	<i>Sorghum halepense</i>
Kentucky bluegrass	<i>Poa pratensis</i>
Lovegrass <sup>1</sup>	<i>Eragrostis</i> spp.
Orchardgrass	<i>Dactylis glomerata</i>
Paragrass	<i>Brachiaria mutica</i>
Quackgrass	<i>Agropyron repens</i>
Sandbur	<i>Cenchrus</i> spp.
Sand dropseed	<i>Sporobolus cryptandrus</i>
Smooth brome	<i>Bromus inermis</i>
Vaseygrass	<i>Paspalum urvillei</i>
Wild oats	<i>Avenafatua</i>
Witchgrass	<i>Panicum capillare</i>

**Apply 16 to 21 ounces (0.75 – 0.98 lb a.i.) per acre<sup>1</sup>**

Barnyardgrass	<i>Echinochloa crus-gali</i>
Beardgrass	<i>Andropogon</i> spp.
Cheat	<i>Bromus secalinus</i> .
Crabgrass	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Pall panicum	<i>Panicum dichotomiflorum</i>
Giant reed	<i>Arundo donax</i>
Goosegrass	<i>Eleusine indica</i>
Itchgrass	<i>Rotthoellia exaltata</i>
Junglerice	<i>Echinochloa colinum</i>
Lovegrass	<i>Eragrostis</i> spp.
Maidencane	<i>Panicum hemitomon</i>
Panicum, browntop	<i>Panicum fasciculatum</i>
Panicum, Texas	<i>Panicum texanum</i>
Prairie threeawn	<i>Aristida oligantha</i>

Reed canarygrass	<i>Phalaris arundinacea</i>
Sandbur, field	<i>Cenchrus incertus</i>
Signalgrass	<i>Brachiaria platyphylla</i>
Torpedograss	<i>Panicum repens</i>
Wild barley	<i>Hordeum</i> spp.
Wooly cupgrass	<i>Eriochloa villosa</i>

**Apply 21 to 32 ounces (0.98 – 1.5 lb a.i.) per acre<sup>1</sup>**

Bahiagrass	<i>Paspalum notatum</i>
Bermudagrass <sup>1</sup>	<i>Cynodon dactylon</i>
Big bluestem	<i>Andropogon gerardii</i>
Cattail	<i>Typha</i> spp.
Cogongrass	<i>Imperata cylindrica</i>
Dallisgrass	<i>Paspalum dilatatum</i>
Feathertop	<i>Pennisetum villosum</i>
Guineagrass	<i>Panicum maximum</i>
Phragmites	<i>Phragmites australis</i>
Prairie cordgrass	<i>Spartina pectinata</i>
Saltgrass <sup>2</sup>	<i>Distichlis stricta</i>
Sand dropseed	<i>Sporobolus cryptandrus</i>
Sprangletop	<i>Leptochloa</i> spp.
Timothy	<i>Phleum pratense</i>
Wirestem muhly	<i>Muhlenbergia frondosa</i>

**BROADLEAF WEEDS**

**Apply 11.2 to 16 ounces (0.525 – 0.75 lb a.i.) per acre<sup>1</sup>**

Alligatorweed	<i>Alternanthera philoxeroides</i>
Burdock	<i>Arctium</i> spp.
Camphorweed	<i>Heterotheca subaxillaris</i>
Carpetweed	<i>Mollugo verticillata</i>
Carolina geranium	<i>Geranium carolinianum</i>
Clover	<i>Trifolium</i> spp.
Common chickweed	<i>Stellaria media</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Dandelion	<i>Taraxacum officinale</i>
Dogfennel	<i>Eupatorium capillifolium</i>
Filaree	<i>Erodium</i> spp.
Fleabane	<i>Erigeron</i> spp.
Hoary vervain	<i>Verbena stricta</i>
Horseweed	<i>Conyza canadensis</i>
Indian mustard	<i>Brassica juncea</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters	<i>Chenopodium album</i>
Lespedeza	<i>Lezpedeza</i> spp.
Miners lettuce	<i>Montia perfoliata</i>
Mullein	<i>Verbascum</i> spp.
Nettleleaf goosefoot	<i>Chenonodium murale</i>
Oxeye daisy	<i>Chrysanthemum leucanthemum</i>
Pepperweed	<i>Lepidium</i> spp.
Pigweed	<i>Amaranthus</i> spp.
Plantain	<i>Plantago</i> spp.
Puncturevine	<i>Tribulus terrestris</i>
Russian thistle	<i>Salsola kali</i>
Smartweed	<i>Polygonum</i> spp.
Sorrel	<i>Rumex</i> spp.
Sunflower	<i>Helianthus</i> spp.
Sweet clover	<i>Melilotus</i> spp.
Tansymustard	<i>Descurainia pinnata</i>
Western ragweed	<i>Ambrosia psilostachya</i>

Wild carrot	<i>Daucus carota</i>
Wild lettuce	<i>Lactuca</i> spp.
Wild parsnip	<i>Pastinaca sativa</i>
Wild turnip	<i>Brassica campestris</i>
Woollyleaf bursage	<i>Franseria tomentosa</i>
Yellow woodsorrel	<i>Oxalis stricta</i>

**Apply 16 to 21 ounces (0.75 – 0.98 lb a.i.) per acre<sup>1</sup>**

Broom snakeweed	<i>Gutierrezia sarothrae</i>
Bull thistle	<i>Cirsium vulgare</i>
Burclover	<i>Medicago</i> spp.
Chickweed, mouseear	<i>Cerastium vulgatum</i>
Clover, hop	<i>Trifolium procumbens</i>
Cocklebur	<i>Xanthium strumarium</i>
Cudweed	<i>Gnaphalium</i> spp.
Desert camelthorn	<i>Alhagi pseudalhagi</i>
Diffuse knapweed	<i>Centaurea diffusa</i>
Dock	<i>Rumex</i> spp.
Fiddleneck	<i>Amsinckia intermedia</i>
Goldenrod	<i>Solidago</i> spp.
Henbit	<i>Lamium aplexicaule</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Pokeweed	<i>Phytolacca americana</i>
Purple loosestrife	<i>Lythum salicaria</i>
Purslane	<i>Portulaca</i> spp.
Pusley, Florida	<i>Richardia scabra</i>
Rocket, London	<i>Sisymbrium irio</i>
Rush skeletonweed	<i>Chondrilla juncea</i>
Saltbush	<i>Atriplex</i> spp.
Shepherd's-purse	<i>Capsela bursa-pastoris</i>
Spurge, annual	<i>Euphorbia</i> spp.
Stinging nettle	<i>Urtica dioica</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Yellow starthistle	<i>Centaurea solstitialis</i>

**Apply 21 to 32 ounces (0.98 – 1.5 lb a.i.) per acre<sup>1</sup>**

Arrowwood	<i>Pluchea sericea</i>
Canada thistle	<i>Cirsium arvense</i>
Giant ragweed	<i>Ambrosia trifida</i>
Grey rabbitbrush	<i>Chrysothamnus nauseosus</i>
Japanese bamboo/knotweed	<i>Polygonum cuspidatum</i>
Little mallow	<i>Malva parvilora</i>
Milkweed	<i>Asclepias</i> spp.
Primrose	<i>Oenothera kunthiana</i>
Russian knapweed	<i>Centaurea repens</i>
Silverleaf nightshade	<i>Solanum elaeagnifolium</i>
Sowthistle	<i>Sonchus</i> spp.
Texas thistle	<i>Cirsium texanum</i>

**VINES AND BRAMBLES**

**Apply 5 ounces (0.23 lb a.i.) per acre<sup>1</sup>**

Field bindweed	<i>Convolvulus arvensis</i>
Hedge bindweed	<i>Calystegia sepium</i>

**Apply 11.2 to 16 ounces (0.525 – 0.75 lb a.i.) per acre<sup>1</sup>**

Wild buckwheat	<i>Polygonum convolvulus</i>
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**Apply 16 to 21 ounces (0.75 – 0.98 lb a.i.) per acre<sup>1</sup>**

Greenbriar	<i>Smilax</i> spp.
Honeysuckle	<i>Lonicera</i> spp.
Morningglory	<i>Ipomoea</i> spp.

Poison ivy  
Redvine  
Wild rose<sup>1</sup>  
Including: Multiflora rose  
Macartney rose  
Rosa multiflora  
Rosa bractreata

*Rhus radicans*  
*Brunnichia cirrhosa*

*Rosa spp.*

**Apply 21 to 32 ounces (0.98 – 1.5 lb a.i.) per acre<sup>1</sup>**

Kudzu<sup>4</sup>  
Trumpet creeper  
Virginia creeper  
Wild grape

*Pueraria lobata*  
*Campsis radicans*  
*Parthenocissus quinquefolia*  
*Vitis spp.*

**BRUSH SPECIES**

**Apply 21 to 32 ounces (0.98 – 1.5 lb a.i.) per acre<sup>1</sup>**

Alder  
American beech  
Ash<sup>1</sup>  
Aspen  
Autumn olive  
Bald cypress  
Bigleaf maple  
Birch<sup>1</sup>  
Blackgum<sup>2</sup>  
Boxelder  
Black oak  
Ceanothis  
Cherry<sup>1, 2</sup>  
Chinaberry  
Chinese tallow-tree  
Chinquapin  
Cottonwood  
Cypress  
Dogwood<sup>1</sup>  
Eucalyptus  
Hawthorn  
Hickory<sup>1</sup>  
Huckleberry  
Lyonia spp.  
Including: Fetterbush  
          Staggerbush  
Madrone  
Maple  
Melaleuca  
Mulberry<sup>1, 3</sup>  
Oak<sup>1</sup>  
Persimmon<sup>2</sup>  
Poison oak  
Popcorn tree  
Poplar  
Privet  
Red Alder  
Red Maple  
Russian Olive  
Saltcedar  
Sourwood<sup>2</sup>  
Sumac  
Sweetgum

*Alnus spp.*  
*Fagus grandifolia*  
*Fraxinus spp.*  
*Populus spp.*  
*Elaeagnus umbellata*  
*Taxodium distichum*  
*Acer macrophyllum*  
*Betula spp.*  
*Nyssa sylvatica*  
*Acer negundo*  
*Quercus kelloggii*  
*Ceanothis spp.*  
*Prunus spp.*  
*Melia azadarach*  
*Sapium sebiferum*  
*Castanopsis chrysophylla*  
*Populus trichocarpa and P. deltoides*  
*Taxodium spp.*  
*Comus spp.*  
*Eucalyptus spp.*  
*Crataegus spp.*  
*Carya spp.*  
*Gaylussacia spp.*  
  
*Lyonia lucida*  
*Lyonia mariana*  
*Arbutus menziesii*  
*Acer spp.*  
*Melaleuca quinquenervia*  
*Morus spp.*  
*Quercus spp.*  
*Diospyros virginiana*  
*Rhus diversiloba*  
*Sapium sebiferum*  
*Populus spp.*  
*Ligustrum vulgare*  
*Alnus rubra*  
*Acer rubrum*  
*Elaeagnus angustifolia*  
*Tamarix ramosissima*  
*Sassafras albidum*  
*Rhus spp.*  
*Liquidambar styraciflua*

Sycamore	<i>Platanus occidentalis</i>
Tanoak <sup>1</sup>	<i>Lithocarpus densiflorus</i>
TiTi <sup>1</sup>	<i>Cyrilla racemiflora</i>
Tree of heaven	<i>Ailanthus altissima</i>
Vaccinium spp. Including: Blueberry Sparkleberry	<i>Vaccinium</i> spp. <i>Vaccinium arboreum</i>
Willow	<i>Salix</i> spp.
Yellow poplar	<i>Liriodendron tulipifera</i>

<sup>1</sup> Use the higher rates where heavy or well-established infestations occur and for best control of Water, Laurel, Willow, and Live oaks species.

<sup>2</sup> Best control prior to formation of fall leaf color.

<sup>3</sup> Degree of control may be species dependent.

<sup>4</sup> Use a minimum of 75 GPA- control of established stands may require repeat applications.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Do not store below 10°F. Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

[Container statement for Nonrefillable plastic container small enough to shake]

[Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill.]

[-or-]

[Container statement for Nonrefillable plastic bag.]

[Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.]

[-or-]

[Container statement for Nonrefillable fiber drum with liner]

[Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.]

### CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

**Warranty:** Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the

manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitation of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

[EPA approval date]

**{[LANGUAGE ON LABEL AFFIXED TO CONTAINER]}**

**ALLIGARE IMAZAPYR 75 WDG**

IMAZAPYR	GROUP	2	HERBICIDE
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<b>ACTIVE INGREDIENT:</b>	<b>By Wt</b>
Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) .....	75.0%
<b>OTHER INGREDIENTS:</b> .....	25.0%
<b>TOTAL:</b> .....	100.0%

Alligare Imazapyr 75 WDG is a water dispersible granule containing 75% active ingredient.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

<b>FIRST AID</b>	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Do not store below 10°F. Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

[Container statement for Nonrefillable plastic container small enough to shake]

[Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill.]

[-or-]

[Container statement for Nonrefillable plastic bag.]

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[-or-]

[Container statement for Nonrefillable fiber drum with liner]

[Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.]

[See] [inside] [label] [booklet] [for] [First Aid][.] [additional] [Precautionary Statements][.] [and] [Directions for Use] [including] [Storage and Disposal Instructions][.]

**EPA Reg. No.** 81927-xx

**EPA Est. No.**

**Manufactured for:**

Alligare, LLC  
1565 5<sup>th</sup> Avenue  
Opelika, AL 36801

[Batch/Lot No. \_\_\_\_\_]

**Net Weight:**